

ABSTRACT

A new class of imidazolines as 4-position esters with very potent anti-inflammatory as well as antimicrobial activity is described. The synthesis of these imidazolines includes a multicomponent reaction applicable to a combinatorial synthetic approach. The combination of these two key characteristics provides an effective therapeutic drug in the treatment of septic shock as well as many other inflammatory (arthritis and asthma) and infectious disorders. The use of this novel class of non-steroidal agents as anti-inflammatory agents (for the treatment of asthma, etc.), antibacterial agents, and antiseptic agents is described. The compounds are also useful in the treatment of tumors (such as cancers). The imidazolines are potent inhibitors of the transcription factor NF- κ B as well as potent activity against the Gram (+) bacterium. The compositions are also useful for treating autoimmune diseases and for inhibiting rejection of organ and tissue transplants.